

Regional HIV/AIDS Epidemiologic Profile of Hampden County, Massachusetts: 2011

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed while residing in another state before being reported in Massachusetts. As of January 1, 2011, this resulted in the removal of 2,297 HIV/AIDS cases, of which 739 have died and 1,558 were living. These persons living with HIV/AIDS may currently reside and receive care in the Commonwealth. The total number of persons living in Massachusetts with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS surveillance system. The cases are assigned to the state that reports the earliest date of AIDS diagnosis, if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the Massachusetts Department of Public Health (MDPH) HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 41% of recent HIV diagnoses among females are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2010: Hampden County, Massachusetts²

	N	%
People Living with HIV/AIDS	1,646	57%
People Reported with HIV or AIDS who are Deceased	1,257	43%
Total Number of People Reported with HIV Infection or AIDS	2,903	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 2. Average annual rate of HIV infection diagnosis from 2007 to 2009 and HIV/AIDS prevalence rate on 12/31/10¹: Hampden County, Massachusetts²

Average annual HIV diagnosis rate from 2007–2009	Average rate per 100,000	Average annual number of HIV diagnoses
Hampden County, MA	9.1	42.7
Massachusetts Total	9.4	607.3

HIV/AIDS prevalence rate on 12/31/10	Rate per 100,000	Number of people living with HIV/AIDS
Hampden County, MA	352.7	1,646
Massachusetts Total	273.7	17,621

¹ The denominators for prevalence calculations are based on year 2005 population estimates from the MDPH Bureau of Health Statistics, Research and Evaluation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2000–2009, Hampden County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2000	1,258	56	116
2001	1,327	36	105
2002	1,375	45	93
2003	1,427	49	101
2004	1,490	49	112
2005	1,536	43	89
2006	1,574	38	76
2007	1,589	37	52
2008	1,599	34	44
2009	1,602	29	32

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 4. People diagnosed with HIV infection from 2007–2009¹ and people living with HIV/AIDS on December 31, 2010 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Hampden County, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	88	69%	981	60%
Female	40	31%	665	40%
Place of Birth:	N	%	N	%
US	81	63%	1,081	66%
Puerto Rico/US Dependency ³	35	27%	485	29%
Non-US	12	9%	80	5%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	30	23%	387	24%
Black (non-Hispanic)	-- ⁷	-- ⁷	330	20%
Hispanic/Latino	65	51%	914	56%
Other/Undetermined ⁴	-- ⁷	-- ⁷	15	1%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	42	33%	314	19%
Injection Drug Use (IDU)	23	18%	550	33%
MSM/IDU	-- ⁷	-- ⁷	46	3%
Heterosexual Sex	15	12%	322	20%
Other	-- ⁷	-- ⁷	56	3%
Total Undetermined	47	37%	358	22%
• Presumed Heterosexual Sex ⁵	15	12%	156	9%
• Undetermined ⁶	32	25%	202	12%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2010	
Under 13	1	1%	8	<1%
13 to 19	5	4%	27	2%
20 to 24	5	4%	39	2%
25 to 29	24	19%	59	4%
30 to 34	13	10%	103	6%
35 to 39	17	13%	174	11%
40 to 44	14	11%	302	18%
45 to 49	22	17%	361	22%
50 to 54	14	11%	270	16%
55 to 59	6	5%	173	11%
60+	7	5%	130	8%
Total	128	100%	1,646	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-seven percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 3% were born in an unknown dependency.

⁴ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁶ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁷ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/11

Table 5. People living with HIV/AIDS on December 31, 2010 by gender and race/ethnicity: Hampden County, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	277	28%	110	17%
Black (non-Hispanic)	181	18%	149	22%
Hispanic/Latino	513	52%	401	60%
Other/Undetermined ²	10	1%	5	1%
Total	981	100%	665	100%

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² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 6. People living with HIV/AIDS on December 31, 2010 by gender and exposure mode: Hampden County, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	314	32%	N/A	N/A
Injection drug use (IDU)	353	36%	197	30%
MSM/IDU	46	5%	N/A	N/A
Heterosexual sex	74	8%	248	37%
Other	30	3%	26	4%
Total Undetermined	164	17%	194	29%
• Presumed heterosexual sex ²	N/A	N/A	156	23%
• Undetermined ³	164	17%	38	6%
Total	981	100%	665	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Hampden County, Massachusetts¹, 2000–2009²

	Male		Female		Total
	N	%	N	%	
2000	76	66%	40	34%	116
2001	69	66%	36	34%	105
2002	60	65%	33	35%	93
2003	66	65%	35	35%	101
2004	65	58%	47	42%	112
2005	54	61%	35	39%	89
2006	44	58%	32	42%	76
2007	36	69%	16	31%	52
2008	28	64%	16	36%	44
2009	24	75%	8	25%	32

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Hampden County, Massachusetts¹, 2000–2009²

	White NH		Black NH		Hispanic/Latino		Other/ Undetermined ³		Total
	N	%	N	%	N	%	N	%	
2000	26	22%	27	23%	62	53%	1	1%	116
2001	30	29%	18	17%	57	54%	0	0%	105
2002	23	25%	21	23%	48	52%	1	1%	93
2003	26	26%	20	20%	53	52%	2	2%	101
2004	21	19%	31	28%	59	53%	1	1%	112
2005	19	21%	21	24%	46	52%	3	3%	89
2006	18	24%	12	16%	46	61%	0	0%	76
2007	14	27%	10	19%	28	54%	0	0%	52
2008	10	23%	11	25%	21	48%	2	5%	44
2009	6	19%	8	25%	16	50%	2	6%	32

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Hampden County, Massachusetts¹, 2000–2009²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	
2000	86	74%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	116
2001	69	66%	31	30%	5	5%	105
2002	59	63%	22	24%	12	13%	93
2003	70	69%	25	25%	6	6%	101
2004	67	60%	34	30%	11	10%	112
2005	53	60%	27	30%	9	10%	89
2006	48	63%	21	28%	7	9%	76
2007	30	58%	17	33%	5	10%	52
2008	29	66%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	44
2009	22	69%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	32

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Ninety-seven percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 3% were born in an unknown dependency.

⁴ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Hampden County, Massachusetts¹, 2000–2009²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2000	19	16%	44	38%	-- ⁵	-- ⁵	21	18%	-- ⁵	-- ⁵	7	6%	17	15%	116
2001	24	23%	43	41%	-- ⁵	-- ⁵	14	13%	-- ⁵	-- ⁵	9	9%	13	12%	105
2002	17	18%	27	29%	-- ⁵	-- ⁵	21	23%	-- ⁵	-- ⁵	10	11%	14	15%	93
2003	24	24%	26	26%	-- ⁵	-- ⁵	17	17%	-- ⁵	-- ⁵	16	16%	14	14%	101
2004	19	17%	30	27%	-- ⁵	-- ⁵	21	19%	-- ⁵	-- ⁵	14	13%	22	20%	112
2005	21	24%	26	29%	0	0%	14	16%	0	0%	9	10%	19	21%	89
2006	18	24%	21	28%	-- ⁵	-- ⁵	9	12%	-- ⁵	-- ⁵	14	18%	13	17%	76
2007	12	23%	14	27%	0	0%	8	15%	0	0%	5	10%	13	25%	52
2008	18	41%	6	14%	-- ⁵	-- ⁵	5	11%	-- ⁵	-- ⁵	7	16%	7	16%	44
2009	12	38%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	12	38%	32

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Hampden County, Massachusetts¹, 2000–2009²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2000	45	116	39%
2001	28	105	27%
2002	27	93	29%
2003	27	101	27%
2004	31	112	28%
2005	32	89	36%
2006	18	76	24%
2007	19	52	37%
2008	9	44	20%
2009	10	32	31%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/11

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Hampden County, Massachusetts,¹ 2007–2009²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	33	88	38%
Female	5	40	13%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	11	30	37%
Black (non-Hispanic)	-- ⁵	-- ⁵	-- ⁵
Hispanic/Latino	19	65	29%
Other/Undetermined ³	-- ⁵	-- ⁵	-- ⁵
Place of Birth:	N	N	%
US	27	81	33%
Puerto Rico/US Dependencies ⁴	-- ⁵	-- ⁵	-- ⁵
Non-US	-- ⁵	-- ⁵	-- ⁵
Total	38	128	30%

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

⁴ Ninety-nine percent of people diagnosed with HIV infection from 2007–2009 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands and <1% were born in Guam.

⁵ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11